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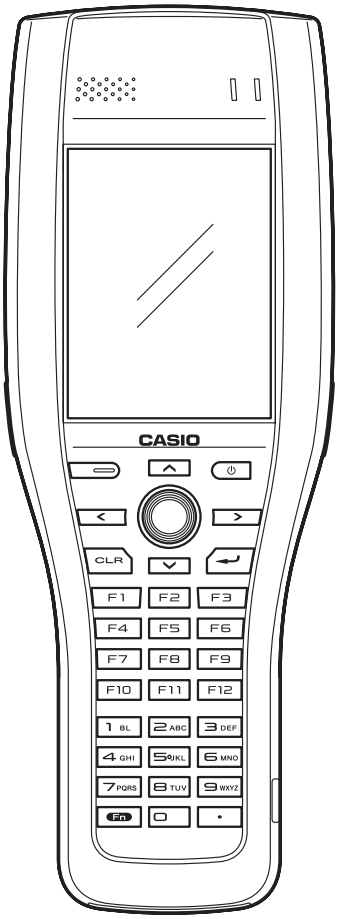
CASIO

Handheld Terminal

DT-X30 R-50C/R-50

User's Guide



Be sure to read "Safety Precautions" inside this guide before trying to use your Handheld Terminal.

- This Product is equipped with the Brycen BL-RAPPORE Stack and My Wirefree Network Bluetooth User Interface Application, the use of which is governed by a license granted by Brycen Co., Ltd.

Bluetooth®

- BLUETOOTH is a registered trademark owned by Bluetooth SIG, Inc. and licensed to CASIO COMPUTER CO., LTD.
- Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

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Safety Precautions

Congratulations upon your selection of this CASIO product. Be sure to read the following Safety Precautions before trying to use it for the first time.

Your neglect or avoidance of the warning and caution statements in the subsequent pages causes the danger of fire, electric shock, malfunction and damage on the goods as well as personal injury.

Markings and Symbols

The following are the meanings of the markings and symbols used in these Safety Precautions.

⚠ **Danger**	This symbol indicates information that, if ignored or applied incorrectly, creates the danger of death or serious personal injury.
⚠ **Warning**	This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of death or serious personal injury.
⚠ **Caution**	This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of personal injury or property damage.

- A diagonal line indicates something you should not do. The symbol shown here indicates you should not try to take the unit apart.

- A black circle indicates something you should do. The symbol shown here indicates you should unplug the unit from the wall outlet.

⚠ Warning

Disassembly and Modification

- Never try to disassemble or modify the Handheld Terminal and its options including battery pack and battery in any way.

Abnormal Conditions

- Should the Handheld Terminal and/or its options including battery pack and battery become hot or start to emit smoke or a strange odor, immediately turn off the power and contact your dealer or distributor whom you purchased the product from, or an authorized CASIO service provider.

⚠ Warning

Dust and Moisture

- Though the Handheld Terminal is dust and water splash resistant, its options including the battery pack are not. Keep loose metal objects and containers filled with liquid away from your Handheld Terminal and the options. Also, never handle the Handheld Terminal and the options while your hands are wet.

Laser Light

- This product with the integrated laser scanning module scans bar codes using laser light. Never look directly into the laser light or shine the laser light into the eyes.

⚠ Warning

Interference with the Operation of Other Equipment (Using Wireless Data Communication)

- Keep your Handheld Terminal at least 22 centimeters ($8^{11}/_{16}$") away from anyone wearing a pacemaker. Radio waves emitted by the Handheld Terminal can affect the operation of a pacemaker.
- Before the use in aircraft, be sure to consult with cabin crew for interference the Handheld Terminal emits.
- Before the use in medical facility, be sure to consult with the facility management or the manufacture of a specific medical equipment that the Handheld Terminal may interfere with.
- Do not use the Handheld Terminal nearby gas pump or chemical tank or any other places flammable or explosive.

⚠ Caution

Foreign Objects

- Take care to ensure that metals or combustible objects are not inserted into the openings of the Handheld Terminal or its options, and not to allow moisture to get inside of them.

Location

- Install the cradle properly on a flat and stable surface so that it cannot fall down onto floor.

LCD Screen

- Never apply strong pressure to the screen or subject it to strong impact. Doing so can crack the LCD Screen.

⚠ Warning

Avoiding Traffic Accidents

- Never use your Car Mounted-type Battery Charger while operating a motor vehicle. Park your vehicle in a safe place before performing any operation.
- Never locate the Car Mounted-type Battery Charger where it might interfere with proper operation of the vehicle.
- Locate connecting cables as instructed by the manual, avoiding locations that can interfere with driving operations.

Car Battery Power

- Should the Car Power Cable become damaged, replace it immediately with a new Car Power Cable when using the Car Mounted-type Battery Charger.

⚠ Caution

Installing in Vehicle

- To save your vehicle's battery from running down, be sure that the Car Power Cable should be unplugged from the cigarette lighter socket when you do not use the Car Mounted-type Battery Charger and that the use of the battery charger should be avoid while the vehicle's engine is turned off.
- Do not handle the Car Power Cable with wet hands.
- Install the Car Mounted-type Battery Charger at location in a vehicle where strong vibration, unstable, excessive of humidity and dust, and under direct sunlight can be avoid. Also, avoid the area where the air bag inflates or any other area where your safe driving is blocked.
- Do not leave the Handheld Terminal in vehicle for a long period of time.

Optional Lithium-ion Battery Pack

⚠ Danger

- Never use the Handheld Terminal and its option including the battery pack and battery next to open flame, near a stove, or any other area exposed to high heat, or leave them for a long period of time in a vehicle parked in direct sunlight.
- Never use the battery pack with any device other than the Handheld Terminal.
- Never dispose of the battery pack by incinerating it or otherwise expose it to heat.
- Never transport or store the battery pack together with metal objects that may result in shorting positive (+) and negative (–) terminals of the battery pack. Be sure to place the battery pack in its case whenever transporting or storing it.
- Never throw the battery pack or otherwise subject it to strong impact.
- Never pierce the battery pack with nails, hit it with a hammer, or step on it.
- Use only the specified battery charger to charge the battery pack.

⚠ Warning

- Never place the battery pack in a microwave oven or any other high-voltage device.
- If the amount of time period the battery pack can serve becomes considerably short even after it has been fully charged for the specified time period, stop using it.
- Should the battery pack start to leak or emit a strange odor, immediately move it away from any flame nearby. Leaking battery fluid is combustible.
- Should fluid from the battery pack accidentally get into your eyes or on the skin, do not rub it. Immediately rinse it off with clean tap water and then consult a physician.

⚠ Caution

- Replace only with the same type of battery pack recommended by CASIO. Dispose of used battery packs according to the local regulation.
- Keep the battery pack out of the reach of small children.

Power Supply / AC Adaptor

⚠ Warning

- Do not use the Handheld Terminal at a voltage other than the specified voltage. Also, do not connect the Handheld Terminal to a multi-plug power strip.
- Never modify, sharply bend, twist, or pull on the power cord.
- Never use a detergent to clean AC adaptor and its power cable, especially on the plug and the jack.
- When using the battery chargers and the cradles, be sure to use the respective AC adaptors.

⚠ Caution

- Never pull on the power cord when unplugging it. Always hold the plug when unplugging it from the wall outlet.
- Never touch the plug while your hands are wet.
- Be sure to unplug the power cord from the wall outlet before cleaning the battery chargers and the cradles.
- Unplug the power cord from the wall outlet whenever leaving the battery chargers and the cradles unattended for a long period.
- The housing of the AC adaptor can become warm during normal use.
- At least once a year, unplug the AC adaptor from the wall outlet and clean any dust that builds up between the prongs of the plug.
  Dust built up between the prongs can lead to the danger of fire.

Backup Copies of All Important Data

⚠ Caution

- Note that CASIO Computer Co., Ltd. shall not be held liable to you or any third party for any damages or loss caused by deletion or corruption of data due to use of the Handheld Terminal, malfunction or repair of the Handheld Terminal or its peripherals, or due to the batteries going dead.
- The Handheld Terminal employs electronic memory to store data, which means that memory contents can be corrupted or deleted if power is interrupted due to the batteries going dead or incorrect battery replacement procedures. Data cannot be recovered once it is lost or corrupted. Be sure to make backup copies of all important data. One way to do this is to use the separately sold cradles to transfer data to a computer.

Operating Precautions

Your Handheld Terminal and its options are precision. Improper operation or rough handling can cause problems with data storage and other problems. Note and observe the following precautions to ensure proper operation.

- **Do not leave dead battery pack in the Handheld Terminal for a long period.**
  Dead battery pack can leak, leading to malfunction and damage to the Handheld Terminal.

- **Stop or avoid using the Handheld Terminal and its options in areas and conditions subject to the following.**
  — Large amounts of static electricity
  — Extreme heat or cold or humidity
  — Sudden temperature change
  — Large amount of dust
  — After large amount of rain or water falls on the Handheld Terminal
  — Pressing the screen or keys with excessive force when using in the rain

- **Dead Pixels**
  The LCD panel employed in this product uses high precision and substantial number of components which commonly cause a small number of the pixels not to light or to remain lit all the time. This is due to the characteristics of LCD panel yield in accuracy over 99.99% and permissible.

Important

- This guide does not include any information about programming and download procedures. See the applicable separate documentation for information about the procedures.

After Service

- Should this product ever malfunction, contact your original retailer providing information about the product name, the date you purchased it, and details about the problem.

This mark applies to EU countries and Turkey only.

DECLARATION OF CONFORMITY

We, the under signed, CASIO Europe GmbH, hereby declare that the following equipment:

Product: Handheld Terminal
Models: DT-X30R
Brand: CASIO

are in conformity with all the provisions of the following EC directive with meeting the related test standards:

Council Directive: 1999/5/EC (R&TTE Directive):
Standards for all models:

EN 60950-1: 2001
EN 50371: 2002
EN 301 489-17 v1.2.1 (2002-08)
EN 300 328 v1.7.1 (2006-10)

Hereunder, that this declaration is based on the above standards have been complied fully, constructing into a Technical File and reviewing by the Notified Body, Compliance Certification Services (NB Number; 0984).
Certificate/Expert Opinion issued by Compliance Certificate Services is available.

Manufacturer:
CASIO COMPUTER CO., LTD.
6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan

Representative within the European Union:
CASIO Europe GmbH
Casio-Platz 1, 22848 Norderstedt, Germany

Products are for distribution within all member states of the EU. CE 0984 ⓘ
France limited to 2446.5-2483.5 MHz Indoor use.
Belgium limited to 2400-2483.5 MHz Indoor, 2460-2483.5 MHz Outdoor use.

The information described above dates from January 2008 and may be subjected to future changes.

Optional models HA-G60IO, HA-G62IO, HA-G30CHG, HA-G32DCHG and HA-G21BAT are in conformity with the Council Directive 2004/108/EC.

CE

Manufacturer:
CASIO COMPUTER CO., LTD.
6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan

Representative within the European Union:
CASIO EUROPE GmbH
Casio-Platz 1, 22848 Norderstedt, Germany

Declaration of compliance with other relevant standards can be referred to at http://world.casio.com/system/pa/UsersGuide/sup85_e.html.

The CASIO DT-X30 models are designed, tested and found to meet the relevant regulatory standards described below.

DT-X30R
International standards:
IEC 60825-1
IEC 60529, IP64 level
Europe standards:
EN 60950-1
EN 60825-1
EN 300 328
EN 301 489-17
EN 50371

ENGLISH

Disposal of Waste Electrical & Electronic Equipment of products for Household use
(Applicable in the European Union only)

The symbol (crossed out wheeled-bin) on your product indicates that the product shall not be mixed or disposed with your household waste, at their end of use.

This product shall be handed over to your local community waste collection point for the recycling of the product.

For more information, please contact your Government Waste-Disposal department in your country.
Inappropriate waste handling could possibly have a negative effect on the environment and human health due to potential hazardous substances. With your cooperation in the correct disposal of this product, you contribute to reuse, recycle and recover the product and our environment will be protected.

Disposal of Waste Electrical & Electronic Equipment of products for business use
(Applicable in the European Union only)

For further information regarding the disposal of products for business purposes, please contact your dealer or distributor in your country. This product shall not be mixed or disposed with commercial waste.

Deutsch

Entsorgung von elektrischen & elektronischen Produkten für den Haushaltsgebrauch
(anzuwenden nur in den Ländern der Europäischen Union)

Dieses Symbol (ausgekreuzte Mülltonne) auf dem Produkt bezeichnet, dass Altgeräte usw. nicht wie normaler Haushaltsabfall in den Müll gegeben werden dürfen, sondern zum Recycling an einer hierfür vorgesehenen Annahmestelle abzugeben ist.

Für nähere Informationen wenden Sie sich bitte an die für Müllentsorgung zuständigen örtlichen Behörden.
Bei unsachgemäßer Entsorgung besteht das Risiko nachteiliger Auswirkungen auf Umwelt und Gesundheit durch potentiell gefährliche Substanzen. Durch Ihre Kooperation zur ordnungsgemäßen Entsorgung fördern Sie die Wiederverwendung, das Recycling und die Rückgewinnung von Stoffen und tragen zum Umweltschutz bei.

Entsorgung von elektrischen & elektronischen Produkten durch gewerbliche Benutzer
(anzuwenden nur in den Ländern der Europäischen Union)

Für nähere Informationen zur Entsorgung durch gewerbliche Benutzer wenden Sie sich bitte an Ihren Händler oder den zuständigen Vertrieb.
Das Produkt darf nicht in den normalen Gewerbemüll gegeben werden.

Français

Traitement des appareils électriques et électroniques en fin de vie par les particuliers
(Applicable dans les pays de l'Union Européenne seulement)

Ce symbole (poubelle interdite) apposé sur le produit indique qu'en fin de vie ce produit ne doit pas être traité avec les déchets ménagers.

Il doit être remis à un point de collecte approprié pour le recyclage des appareils électriques et électroniques.

Pour de plus amples informations, veuillez contacter le service de collecte des déchets ménagers local.
Ce produit contient des substances potentiellement dangereuses qui peuvent avoir des effets néfastes sur l'environnement et la santé humaine. En veillant à la mise au rebut correcte de ce produit, vous contribuerez à assurer le traitement, la récupération et le recyclage de ce produit et à protéger l'environnement.

Traitement des appareils électriques et électroniques en fin de vie par les enterprises
(Applicable dans les pays de l'Union Européenne seulement)

Pour de plus amples informations sur la collecte des déchets des professionnels, veuillez contacter votre revendeur ou distributeur local.
Ce produit ne doit pas être traité avec les déchets d'entreprises.

Italiano

Smaltimento di rifiuti costituiti da prodotti elettrici e elettronici per uso domestico
(applicabile soltanto nell'Unione Europea)

Il simbolo (un bidone con ruote sbarrato da una croce) sul prodotto indica che il prodotto non deve essere mescolato o smaltito con i rifiuti domestici, alla fine della sua durata.

Questo prodotto deve essere consegnato al punto di raccolta rifiuti della propria comunità locale per il suo riciclaggio.

Per ulteriori informazioni, rivolgersi all'organo statale preposto allo smaltimento dei rifiuti nel proprio paese.
Uno smaltimento dei rifiuti inappropriato può avere effetti negativi sull'ambiente e sulla salute umana a causa di sostanze potenzialmente pericolose. Collaborando allo smaltimento corretto di questo prodotto, si contribuisce al riutilizzo, al riciclaggio e al recupero del prodotto, e alla protezione del nostro ambiente.

Smaltimento di rifiuti costituiti da prodotti elettrici e elettronici per uso commerciale
(applicabile soltanto nell'Unione Europea)

Per ulteriori informazioni riguardanti lo smaltimento di prodotti per uso commerciale, rivolgersi al proprio rivenditore o distributore nel proprio paese. Questo prodotto non deve essere mescolato o smaltito con i rifiuti commerciali.

Español

Disposición sobre Residuos de aparatos eléctricos y electrónicos para los productos de uso doméstico
(Aplicable sólo a la Unión Europea)

Los productos identificados con este símbolo (papelera tachada) no deben eliminarse como residuos domésticos una vez finalizada su vida útil.

Este producto debe entregarse a un punto de recogida de la comunidad local para su recuperación y reciclado.

Para mayor información, sírvase ponerse en contacto con el Departamento de Disposición de Desechos de su Ayuntamiento.
El manejo inadecuado de los residuos supone riesgos para la salud humana o el medio ambiente. Con la reutilización, el reciclado de los materiales u otras formas de valorización de tales productos usted contribuye de manera importante a la protección de nuestro medio ambiente.

Disposición de Residuos aparatos eléctricos y electrónicos para los productos de uso comercial
(Aplicable sólo a la Unión Europea)

Para mayor información sobre la disposición de productos para fines comerciales, sírvase ponerse en contacto con el concesionario o distribuidor de su país. Este producto no deber mezclarse ni desecharse junto con los residuos comerciales.

Nederlands

Afvalverwijdering van Elektrische & Elektronische Apparatuur voor Huishoudelijk Gebruik
(Alleen van toepassing in de Europese Unie)

Het symbool (doorgekruisde afvalbak op wielen) op het product geeft aan dat het product aan het einde van haar levensduur niet samen met of in de vorm van huishoudafval mag worden weggegooid.

Het product moet naar een verzamelplaats (milieudepot) worden gebracht waar dergelijke producten worden gerecycled.

Neem voor meer informatie contact op met de relevante overheidsafdeling voor afval/vuilnis die in uw land bestaat.
Het kan nadelige gevolgen hebben op voor mens en milieu als afval op een verkeerde manier wordt behandeld waardoor potentieel schadelijke stoffen vrij komen. Door uw medewerking te verlenen en dit product op de juiste wijze wegwerpt, kunt u een bijdrage leveren aan het herstellen, hergebruiken en recyclen van dit product om zo ons milieu te beschermen.

Afvalverwijdering van Elektrische & Elektronische Apparatuur voor Zakelijk Gebruik
(Alleen van toepassing in de Europese Unie)

Voor nadere informatie aangaande het wegwerpen van producten voor zakelijke doeleinden, wordt u verzocht contact op te nemen met uw dealer of de distributeur in uw land. Dit product mag niet samen met of in de vorm van commercieel afval worden weggegooid.

Polski

Usuwanie odpadów sprzętu elektrycznego & elektronicznego produktów pochodzących z gospodarstw domowych
(Stosowane jedynie w Unii Europejskiej)

Symbol (przekreślony pojemnik samojezdny) na Twoim produkcie oznacza, że produkt nie powinien być mieszany lub usuwany z Twoimi odpadami pochodzącymi z gospodarstwa domowego, po jego zużyciu.

Produkt ten powinien zostać dostarczony do lokalnego komunalnego punktu zbiórki odpadów, w celu recyklingu produktu.

W celu uzyskania większej ilości informacji, prosimy o skontaktowanie się z krajowym Wydziałem Zarządzania Gospodarką Odpadami w Twoim kraju. Niewłaściwe manipulowanie odpadami może negatywnie oddziaływać na środowisko i zdrowie ludzi, wskutek potencjalnych substancji niebezpiecznych. Współpracując przy prawidłowym usunięciu tego produktu, przyczyniasz się do ponownego użycia, recyklingu i odzysku produktu i w ten sposób nasze środowisko będzie chronione.

Usuwanie odpadów sprzętu elektrycznego & elektronicznego produktów do użytku przedsiębiorstwa
(Stosowane jedynie w Unii Europejskiej)

W celu uzyskania dalszych informacji odnośnie usuwania produktów używanych do celów przedsiębiorstwa, należy skontaktować się z Twoim sprzedawcą lub dystrybutorem w Twoim kraju. Produkt ten nie powinien być mieszany i usuwany z odpadami komunalnymi.

Magyar

Háztartásban használt elektromos és elektronikus készülékek hulladékként való eltávolítása
(Csak az Európai Unióban alkalmazható)

A készüléken lévő szimbólum (keresztben áthúzott kuka) azt jelzi, hogy a terméket használat után ne keverje, illetve ne helyezze el háztartási hulladékkal.

A terméket újbóli hasznosításra le kell adnia a kijelölt hulladékgyűjtő helyen.

További információért kérjük, forduljon az országában lévő illetékes állami hulladékelhelyezési szervhez.
Nem megfelelő hulladékkezelésnek potenciálisan veszélyes anyagok miatt negatív hatása lehet a környezetre és az emberi egészségre. A termék helyes elhelyezésében való közreműködéssel Ön hozzájárul annak újrafelhasználásához, újrafeldolgozásához és visszanyeréséhez, és védi a környezetünket.

A gazdaságban használt elektromos és elektronikus készülékek hulladékként való eltávolítása
(Csak az Európai Unióban alkalmazható)

Az üzleti célú termékek ártalmatlanításával kapcsolatos további információért kérjük, forduljon az országában lévő kereskedőhöz vagy forgalmazóhoz. A terméket ne keverje, illetve ne helyezze el háztartási hulladékkal.

Svenska

Bortskaffning av förbrukade elektriska & elektroniska produkter för hushållsbruk
(Gäller enbart i den Europeiska Unionen)

Denna symbol (en överkorsad soptunna) på produkten innebär att produkten ej ska blandas eller slängas med ditt hushållsavfall när den är förbrukad.

Produkten ska lämnas till en lokal insamlingsplats för denna slags produkter för återvinning.

Kontakta kommunkontoret för närmare detaljer om var du finner sådana insamlingsplatser. Olämplig avfallshantering kan få negativa effekter på miljön och på mänsklig hälsa då en produkt kan innehålla farliga ämnen. Vi ber om ditt samarbeta i bortskaffningen av denna produkt för att bidra till återvinning, återanvändning och en hälsosammare miljö.

Bortskaffning av förbrukade elektriska & elektroniska produkter för affärsbruk
(Gäller enbart i den Europeiska Unionen)

Kontakta din handlare eller distributör för närmare detaljer om bortskaffning av produkter som använts i affärssyfte. Denna produkt får inte blandas eller slängas med annat affärsavfall.

Dansk

Bortskaffelse af udtjent elektrisk og elektronisk udstyr i produkter til hjemmebrug
(Gælder kun i EU)

Symbolet (en overstreget affaldsspand med hjul) på produktet angiver, at produktet ikke må blandes med eller bortskaffes sammen med almindeligt husholdningsaffald, når det er udtjent.

Produktet skal afleveres til det lokale affaldsindleveringssted til genbrug.

Kontakt venligst afdelingen for bortskaffelse af affald i din kommune angående yderligere information.
Uhensigtsmæssig bortskaffelse af affald kan have en negativ virkning på miljøet og folks helbred, da det kan indeholde potentielle, farlige substanser. Med din medvirken i henseende til forskriftsmæssig bortskaffelse af dette produkt, kan du bidrage til genbruge, recirkulere og genindvinde produkterne og samtidigt medvirke til, at vores miljø vil blive beskyttet.

Bortskaffelse af udtjent elektrisk og elektronisk udstyr i produkter til forretningsbrug
(Gælder kun i EU)

Kontakt venligst din forhandler eller distributør der, hvor du bor, angående yderligere information om bortskaffelse af produkter til forretningsbrug. Dette produkt må ikke blandes med eller bortskaffet sammen med kommercielt affald.

Česky

Nakládání s nepotřebnými domácími elektrickými a elektronickými zařízeními
(Pouze pro Evropskou unii)

Symbol (přeškrtnutá popelnice na kolečkách) na Vašem výrobku označuje, že výrobek se po ukončení jeho používání nesmí míchat a vyhazovat společně s běžným odpadem z domácnosti.

Tento výrobek je třeba odložit na určené sběrné místo ve vaší oblasti pro provedení recyklace tohoto výrobku.

Pro další informace se obraťte na místní orgány státní správy zabezpečující sběr a likvidaci odpadů.
Nesprávné nakládání s odpady by mohlo mít za následek negativní vliv na životní prostředí a lidské zdraví z důvodu možného vzniku škodlivých látek. Pomocí vaší spolupráce při správném způsobu znehodnocení tohoto výrobku přispějete ke znovu využití, recyklaci a obnově výrobku přičemž naše životní prostředí bude ochráněno.

Nakládání s nepotřebnými elektrickými a elektronickými zařízeními pro obchodní účely
(Pouze pro Evropskou unii)

Pro další informace o nakládání s odpady v podobě výrobků pro obchodní účely se obraťte na vašeho prodejce nebo distributora ve vaší zemi. Tento výrobek se nesmí míchat a vyhazovat společně s běžným obchodním odpadem.

Português

Eliminação de Equipamentos Eléctricos e Electrónicos para Uso Doméstico
(Aplicável somente na União Europeia)

O símbolo (caixote de lixo de rodas com uma linha cruzada) em seu produto indica que o produto, no fim da sua vida útil, não deve ser misturado ou eliminado com o lixo doméstico comum.

Este produto deverá ser entregue a uma estação de recolha de lixo da comunidade local para a reciclagem do produto.

Para mais informações, entre em contacto com o Departamento de Tratamento de Lixo do Governo do seu país.
O tratamento de lixo incorrecto poderia provocar um efeito negativo no meio ambiente e saúde humana devido a substâncias potencialmente perigosas. Com a sua cooperação para a eliminação correcta deste produto, contribuirá para a reutilização, reciclagem e recuperação do produto, e nosso meio ambiente será protegido.

Eliminação de Equipamentos Eléctricos e Electrónicos para Uso Comercial
(Aplicável somente na União Europeia)

Para mais informações sobre a eliminação de produtos para propósitos comerciais, entre em contacto o seu revendedor ou distribuidor em seu país. Este produto não deverá ser misturado ou eliminado com lixo comercial.

Suomi

Sähkö- ja elektroniikkatuotteiden hävitysohjeet kotitalouksia varten
(Vain Euroopan Unionia varten)

Tuotteeseen merkitty symboli (ylitse ruksattu jätesäiliö) osoittaa, että tuotetta ei saa sekoittaa eikä hävittää talousjätteiden kanssa.

Tuote on luovutettava sopivaan tällaisten laitteiden kierrätyksestä huolehtivaan keräyspisteeseen.

Pyydä lisätietoja jäteasioista vastaavilta paikallisilta viranomaisilta.
Tämän tuotteen asianmukaisen hävittämisen varmistamisella autetaan estämään sen mahdolliset ympäristöön ja terveyteen kohdistuvat haittavaikutukset, joita voi aiheutua muussa tapauksessa tämän tuotteen epäasianmukaisesta käsittelystä. Hävittämällä tuotteen asianmukaisesti autat varmistamaan, että tuote uudelleenkäytetään, kierrätetään ja kerätään ja ympäristöä suojellaan.

Sähkö- ja elektroniikkatuotteiden hävitysohjeet yrityskäyttäjille
(Vain Euroopan Unionia varten)

Lisätietoja tuotteiden hävitysohjeista yrityskäyttäjille antavat jälleenmyyjät tai edustajat kussakin maassa. Tätä tuotetta ei saa sekoittaa eikä hävittää kaupallisten jätteiden kanssa.

Ελληνικά

Διάθεση Αποβλήτων Ηλεκτρικού & Ηλεκτρονικού Εξοπλισμού Οικιακής χρήσης
(Εφαρμόζεται μόνο στην Ευρωπαϊκή Ένωση)

Το σύμβολο (διαγραμμένος τροχήλατος κάδος απορριμμάτων) πάνω στο προϊόν σας υποδεικνύει ότι αυτό το προϊόν, με τη λήξη της χρήσης του, δεν πρέπει να αναμιχθεί ή να απορριφθεί μαζί με οικιακά απορρίμμα.

Αυτό το προϊόν πρέπει να παραδοθεί στο σημείο συλλογής αποβλήτων της περιοχής σας για την ανακύκλωσή του.

Για περισσότερες πληροφορίες, παρακαλείσθε να επικοινωνήσετε με τη Δημόσια Υπηρεσία Διάθεσης Αποβλήτων της χώρας σας.
Η μη ορθή διαχείριση των αποβλήτων μπορεί να έχει αρνητικές επιπτώσεις στο περιβάλλον και στην ανθρώπινη υγεία λόγω της ενδεχόμενης ύπαρξης επικίνδυνων ουσιών. Με τη συνεργασία σας στη σωστή διάθεση αυτού του προϊόντος, συμβάλλετε στην επαναχρησιμοποίηση, ανακύκλωση και αξιοποίηση του προϊόντος και προστατεύετε το περιβάλλον.

Διάθεση Αποβλήτων Ηλεκτρικού & Ηλεκτρονικού Εξοπλισμού επαγγελματικής χρήσης
(Εφαρμόζεται μόνο στην Ευρωπαϊκή Ένωση)

Για περισσότερες πληροφορίες σχετικά με τη διάθεση των προϊόντων που προορίζονται για επαγγελματική χρήση, παρακαλείσθε να επικοινωνήσετε με τον έμπορο ή τον αντιπρόσωπο της χώρας σας. Αυτό το προϊόν δεν πρέπει να αναμιχθεί ή να απορριφθεί μαζί με απόβλητα εμπορικής προέλευσης.

Slovenčina

Likvidácia elektrického a elektronického zariadenia výrobkov určených pre domáce použitie
(platné len v Európskej Únii)

Symbol (prečiarknutý odpadkový kôš) na výrobku znamená, že daný výrobok nie je možné po skončení používania zmiešať a vyhodiť spolu s bežným domácim odpadom.

Výrobok je nutné odovzdať do zberne odpadu vo vašej lokalite, kde dôjde k jeho recyklácii.

Presné informácie Vám poskytne úrad štátnej správy zodpovedný za zber a likvidáciu odpadu. Nesprávna likvidácia odpadu môže mať negatívný dopad na životné prostredie a ohroziť ľudské zdravie nebezpečnými látkami. Naopak správnym postupom pri likvidácii odpadu umožníte jeho opätovné použitie, recykláciu a obnovenie výrobku, čím prispejete k ochrane životného prostredia.

Likvidácia elektrického a elektronického zariadenia výrobkov určených pre priemyselné použitie
(platné len v Európskej Únii)

Presnejšie informácie ohľadom likvidácie odpadov výrobkov pre priemyselné použitie Vám poskytne predajca alebo distribútor vo Vašej krajine. Výrobok by nemal byť zmiešaný a vyhodený spolu s ostatným priemyselným odpadom.

Slovenščina

Odlaganje odpadkov električne in elektronske opreme izdelkov za gospodinjstvo
(Uporabno samo v Evropski Uniji)

Oznaka (prekrižan smetnjak na kolesih) na vašem izdelku označuje, da se tega izdelka po končani uporabi ne sme mešati ali odvreči z ostalimi gospodinjskimi odpadki.

Ta izdelek je potrebno oddati vaši lokalni deponiji z odpadki za predelavo takšnih izdelkov.

Za podrobnejše podatke se obrnite na državni urad za odstranjevanje odpadkov v vaši državi. Zaradi nevarnih snovi ima lahko napačno upravljanje z odpadki negativne posledice na okolje in zdravje ljudi. Z vašim sodelovanjem pri pravilnem odstranjevanju tega izdelka, pripomorete k ponovni uporabi, recikliranju in nadomestitvi izdelka. Naše okolje bo tako zavarovano.

Odlaganje odpadkov električne in elektronske opreme izdelkov za poslovno uporabo
(Uporabno samo v Evropski Uniji)

Za podrobnejše podatke od odstranjevanju izdelkov za poslovno uporabo, se obrnite na prodajalca ali dobavitelja v vaši državi. Tega izdelka se ne sme mešati ali odvreči z ostalimi komercialnimi odpadki.

Lietuvių

Elektros ir elektroninės įrangos, naudotos buityje, šalinimas
(galioja tik Europos Sąjungoje)

Simbolis (perbraukta šiukšlių dėžė su ratukais), esantis ant jūsų įsigytos įrangos, reiškia, kad įranga, pasibaigus jos naudojimui, negali būti maišoma ar šalinama kartu su buitinėmis atliekomis.

Tokia įranga turi būti perduota jūsų vietos bendruomenės atliekų surinkimo centrui, kad būtų panaudota kaip antrinė žaliava.

Daugiau informacijos galite gauti jūsų šalies vyriausybės atliekų tvarkymo departmente. Netinkamas atliekų šalinimas gali neigiamai veikti aplinką ir žmonių sveikatą, nes atliekose gali būti pavojingų medžiagų. Teisingai šalindami šią įrangą, jūs prisidedate prie pakartotinio įrangos panaudojimo, perdirbimo ir regeneracijos ir taip apsaugote aplinką.

Elektros ir elektroninės įrangos, naudotos komercinėje veikloje, šalinimas
(galioja tik Europos Sąjungoje)

Daugiau informacijos apie komercinėje veikloje naudotos įrangos šalinimą galite gauti iš prekybininkų ar platintojų jūsų šalyje. Ši įranga negali buti maišoma ar išmetama kartu su komercinėmis atliekomis.

Eesti

Koduses majapidamises kasutuskõlbmatuks muutunud elektri- ja elektroonikatarvete kõrvaldamisest.
(Kehtiv vaid Euroopa Ühenduse liikmesriikides)

Sümbol (ristiga maha tõmmatud vagun) tootel osutab, et käesolevat toodet ei tohi peale selle kasutuskõlbmatuks muutumist visata ära koos muu majapidamises tekkiva prügiga.

Käesolev toode on ümbertöödeldav ning tuleb viia kohalikku prügikogumis- või ümbertöötlemiskeskusesse.

Täpsema informatsiooni saamiseks palume pöörduda selle riigiasutuse poole Teie riigis, mis tegeleb prügimajandusse puutuvate regulatsioonidega.
Käesoleva toote vale käsitlemine selle kõrvaldamisel võib põhjustada võimalikest riskiainetest tulenevat negatiivset mõju nii keskkonnale kui ka Teie tervisele. Toote korrektne käsitsemine ka peale selle kasutuskõlbmatuks muutumist ja Teie kaasabi käesoleva toote korduvkasutusse või ümbertöötlusesse saatmisel avab Teile lisavõimaluse kaitsta ühist looduskeskkonda.

Kasutuskõlbmatuks muutunud elektri- ja elektroonikatarvete kõrvaldamisest firmades ja asutustes.
(Kehtiv vaid Euroopa Ühenduse liikmesriikides)

Täpsemate juhiste hankimiseks palume pöörduda Teie riigis asuva edasimüüja või vahendaja poole. Käesolevat toodet ei ole lubatud ära visata koos muu prügiga.

Latviešu

Atbrīvošanās no Elektriskajiem Atkritumiem un Elektroniskām Mājsaimniecību ierīcēm
(Direktīva ir spēkā tikai Eiropas Savienībā)

Simbols (pārsvītrota atkritumu tvertne), uz jūsu produkta, nozīmē, ka produktu nedrīkst izmest, pēc derīguma termiņa beigām, kopā ar parastajiem mājas atkritumiem.

Šis produkts tiks nodots vietējā kaitīgo atkritumu savākšanas punktā tā pārstrādāšanai.

Lai iegūtu plašāku informāciju, lūdzu, sazinieties ar jūsu Valsts atkritumu pārstrādes nodaļu. Nepareiza atbrīvošanas no šī produkta var atstāt negatīvu ietekmi uz apkārtējo vidi un cilvēku Veselību potenciālā kaitīgā sastāva dēļ. Ar jūsu sadarbību šī produkta pareizā pārstrādē, jūs palīdzas aizsargāt apkārtējo vidi un atbalstāt produktu vairākkārtēju izmantošanu.

Atbrīvošanās no Elektroniskajiem Atkritumiem un Elektroniskā ekipējuma biznesa klases produktiem
(Direktīva ir spēkā tikai Eiropas Savienībā)

Lai iegūtu plašāku informāciju par biznesa klases produktu pārstrādi, griezieties pie vietējā izplatītāja vai pārdevēja jūsu valstī. Šo produktu nedrīkst izmest kopā ar tirdzniecības atkritumiem.

Malti

Skart ta' Prodotti Elettriċi u Elettroniċi għal użu Domestiku
(Applikabbli biss fl-Unjoni Ewropea)

Is-simbolu (*wheeled-bin* maqtugħ) fuq il-prodott tiegħek jindika li l-prodott m'għandux jiġi imħallat jew mormi ma' skart domestiku.

Dan il-prodott għandu jiġi rritornat lill-aġenzija li tieħu ħsieb il-ġbir ta' skart domestiku fil-komunita' tiegħek, sabiex jiġi riċiklat.

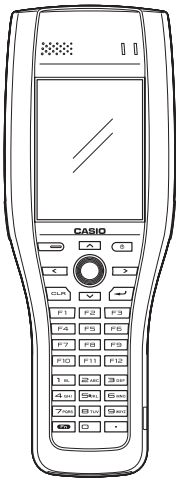
Għal aktar informazzjoni int mitlub tikkuntattja il-Government Waste Disposal department f'pajjiżek.
Minħabba xi kimiċi, jekk dan il-prodott ma jiġix skartat kif indikat, jista' ikun hemm effetti negattivi fuq l-ambjent u s-saħħa.
Bil-koperazzjoni tiegħek fl-iskart ta' dan il-prodott tkun qed tikkontribwixxi ghall-protezzjoni tal-ambjent tagħna Ikoll.

Skart ta' Prodotti Elettriċi u Elettroniċi għal użu Kummerċjali
(Applikabbli biss fl'Unjoni Ewropea)

Tista' tikseb aktar informazzjoni dwar kif għandek tiddispondi minn dan it-tip ta' skart mingħand id-distributur lokali ta' dan il-prodott. Meta jiġi mormi, dan il-prodott m'ghandux jiġi mħallat ma' tipi ta' skart kummerċjali oħra.

Handheld Terminal System Configuration

DT-X30 Series

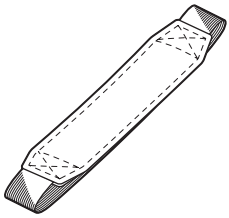


Bundled Items

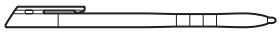
Please check the contents in the box before using the Handheld Terminal for the first time.

Handheld Terminal

Hand Belt



Stylus



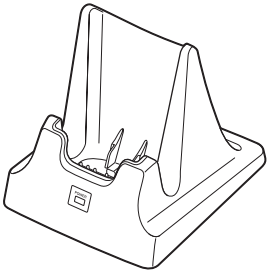
The stylus is attached to the Handheld Terminal.

User's Guide

Options

USB Cradle
HA-G60IO

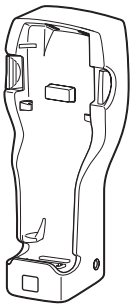
The illustration shows the USB Cradle(HA-G60IO).



Ethernet Cradle
HA-G62IO

Cradle-type Battery Charger
HA-G30CHG

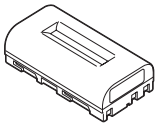
Car Mounted-type Battery Charger
HA-G35CHG



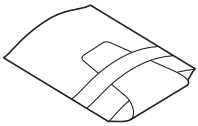
Options

Battery Pack

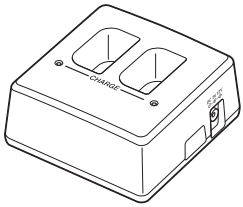
HA-G20BAT
(Battery Pack)



Soft Case

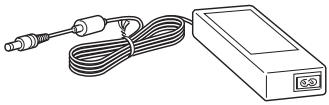


Dual Battery Charger HA-G32DCHG



AC Adaptor for USB Cradle/Ethernet Cradle/ Dual Battery Charger

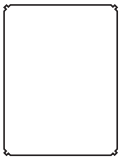
AD-S42120B-N



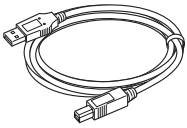
Power Cord for Europe AC-CORD-EU
Power Cord for North America AC-CORD-US
Power Cord for Taiwan AC-CORD-TW
Power Cord for Korea AC-CORD-KR
Power Cord for Australia AC-CORD-AU

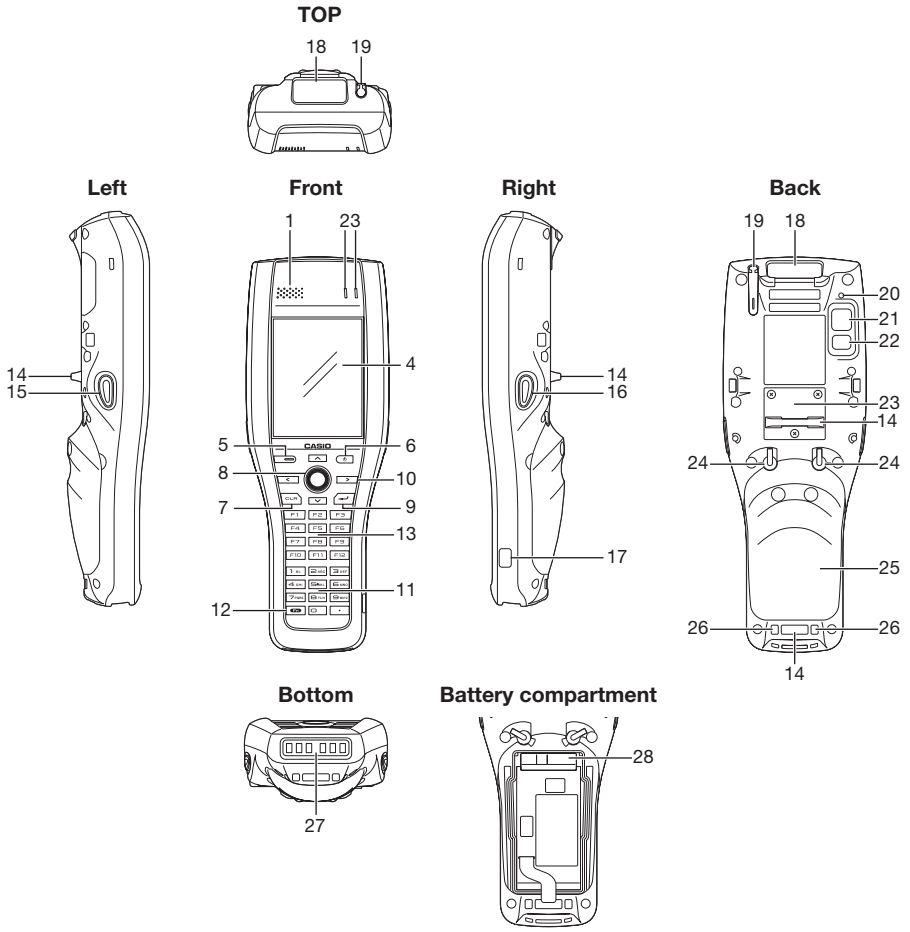
Screen Protect Sheet

HA-G90PS5



Cable DT-380USB





1	Speaker	Generates audio and buzzer tones.
2	Indicator 1	Orange: Charging Green: Charging complete Red: Battery pack error or the surrounding temperature is out of the charging temperature range.
3	Indicator 2	Flashes blue when operating via Bluetooth or orange when operating via W-LAN. Lights red when there is a bar code scanning error and lights green when a bar code scans successfully. Lights red when the alarm function is activated.

4	Screen	Displays text and operating instructions. In addition, operations can be performed and data can be input using the stylus provided.
5	Microphone	Used for audio input (including voice).
6	Power Key	Turns the power on and off.
7	CLR Key	Used to clear one letter to the left of the cursor.
8	Center Trigger Key	Used to perform bar code reading. Can be assigned an arbitrary function.
9	Enter Key	Press when finishing entering numerical values or when moving to the next step.
10	Cursor Keys	Perform the same functions as the up and down arrow keys on a PC keyboard.
11	Numeric Keys	Used to enter numeric values and decimal points.
12	Fn Key	Used to make various settings in combination with the function keys or numeric keys or when starting a pre-registered application. Fn+3: Selects text entry mode by toggling the modes in sequential order below. Numeric → Uppercase letter → Lowercase letter
13	Function Keys	Application software can assign a desired function to each one of the keys, F1 to F12.
14	Hand Belt Holes	Used to attach the hand belt.
15	L Trigger Key	Used to perform bar code reading.
16	R Trigger Key	Used to perform bar code reading.
17	IR Port	Used for communication with another Handheld Terminal.
18	Barcode Reader Port	Laser light or LED light is emitted from this window that reads bar codes.
19	Stylus Holder	Holds the stylus.
20	Reset Switch	Used to reset the Handheld Terminal.
21	Camera Lens (Camera models)	Takes photos.
22	Flash LED (Camera models)	Used for taking photos.
23	Expansion Port	Provided for future expansion.
24	Battery Pack Cover Lock Switch	Used to lock the battery cover and to release.

25	Battery Pack Cover	Used to cover the battery compartment that holds the battery pack inside.
26	Strap Holes	Used to attach the hand strap.
27	Power Contacts	Used to receive power provided by the USB Cradle or Ethernet Cradle. Also used for data communication.
28	microSD Card Slot	microSD card slot. (Remove the battery pack to load a card.)

Loading and Removing the Battery Pack

Your Handheld Terminal uses two types of battery: a battery pack and a memory backup battery.
The battery pack is used to power normal operations and to store data, while the memory backup battery (built-in) provides the power required to maintain memory contents when the battery pack power is unable to supply power for some reason.

When the battery pack power goes low, immediately charge it or replace it with a charged battery pack.
You can use either Dual Battery Charger, Cradle-type Battery Charger, USB Cradle, or Ethernet Cradle to charge a battery pack. See the respective user's guides for information about how to charge.

Important!

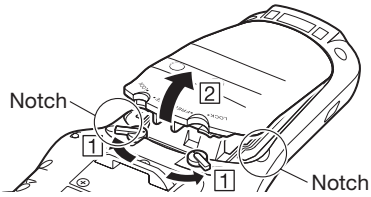
- **Remaining capacity on a battery pack when you purchase it may be depleted due to testing at the factory or natural discharge during shipment and storage. Be sure to charge the battery pack before you use it.**
- **The life of a battery pack is limited, and charging a battery pack causes it to gradually lose its ability to maintain the charge. If your battery pack seems to require charging very frequently, it probably means it is time to purchase a new one.**
- **If a battery pack is used past the end of its service life, it may swell up in size. In such a case, replace the battery pack with a new one.**
- **When the battery pack is attached, it takes 30 minutes for the backup battery to obtain enough charge for maintaining memory (RAM) contents for 10 minutes. It takes four days for the backup battery to achieve a full charge.**
- **Before replacing the battery pack, make sure that the power on the Handheld Terminal is completely shut down.**

Loading

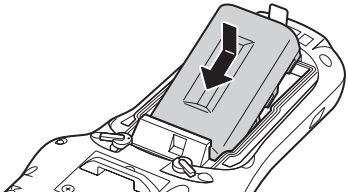
1. Turn over the Handheld Terminal.
2. Remove the battery pack cover as follows:

   [1] Slide the left and right lock switches for the battery pack cover to the “FREE” position.

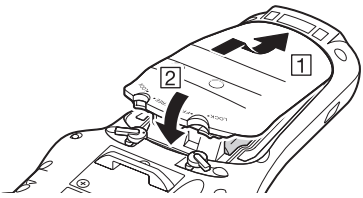
   [2] Hook your fingertips into the notches in the Handheld Terminal and lift the battery pack cover up in the direction indicated by the arrow.

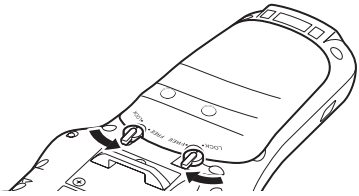


3. Load a battery pack (HA-G20BAT). Take care that the battery pack is oriented correctly when you load it. In addition, load the battery pack while making sure that the end of the battery pack removal tape is protruding above the battery pack.



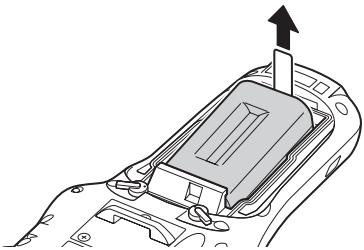
4. Put back the battery pack cover in the compartment as instructed by the arrows, [1] and [2] in the illustration and then return the battery pack cover lock switches to the “LOCK” position.





Removing

1. Make sure that the Handheld Terminal is turned off.
   If the power is on, press the power key to turn it off.
2. Turn over the Handheld Terminal.
3. Refer to “Loading” on the previous page and remove the battery pack cover.
4. Remove the battery pack by pulling up the removal tape as shown in the illustration.



Important!

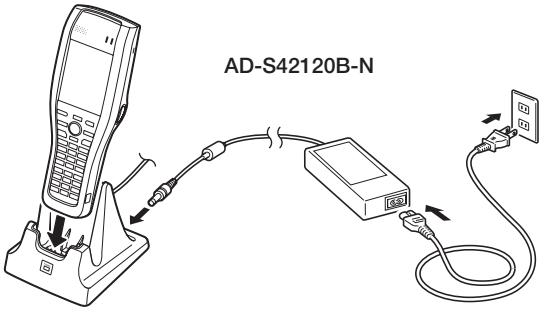
- **Before starting to use the Handheld Terminal, ensure that the battery pack cover is properly closed. If not, the power is not turned on or is turned off abruptly while it is in use.**

Charging the Battery Pack

To charge the battery pack, use one of the cradles and the battery chargers following the procedure described below. Be sure to use the separately sold AC adaptor (AD-S42120B-N) to power the cradle or charger.
Or, if you use the Car Mounted-type Battery Charger in a vehicle, use the accompanied Car Power Cable to power the charger.

USB Cradle/Ethernet Cradle/Cradle-type Battery Charger

The power LED on the front of the Cradle will light green if the Handheld Terminal has been properly mounted.

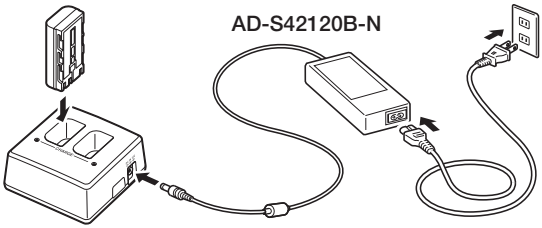


Status of Indicator 1 on DT-X30:

Orange: Charging
Red: Standby due to battery pack error or the surrounding temperature is out of the charging temperature range
(charging begins when the temperature is within the charging temperature range)
Green: Charging complete

Dual Battery Charger

Taking care that the battery pack is oriented correctly, insert it into the Dual Battery Charger.
This causes the Charge Indicator LED to light in red, indicating that charging has started.



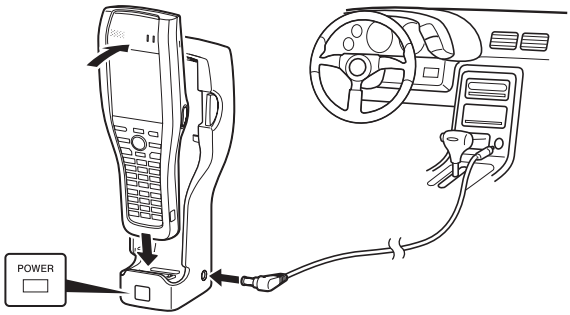
Status of Charge Indicator LED

Off: Not charging
Red: Charging

Red Flashing: Battery pack problem
Green: Charging complete
Green Flashing: Standby due to the surrounding temperature being beyond the specified temperature range (Approximately 0°- 40°C) (charging resumes when the temperature reaches the range.)

Car Mounted-type Battery Charger

Plug in the Car Power Cable accompanied in the box to the Car Mounted-type Battery Charger as illustrated below and the other end to the cigarette lighter socket in vehicle. The power LED on the front of the Car Mounted-type Battery Charger will light green if the Handheld Terminal has been properly mounted.



Status of Indicator 1 on DT-X30:

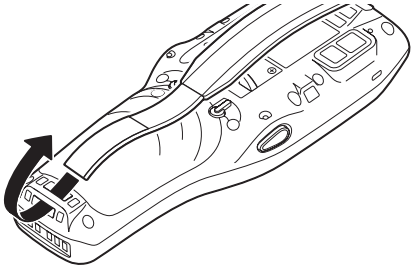
Orange: Charging
Red: Standby due to battery pack error or the surrounding temperature is out of the charging temperature range
(charging begins when the temperature is within the charging temperature range)
Green: Charging complete

Attaching the Hand Belt

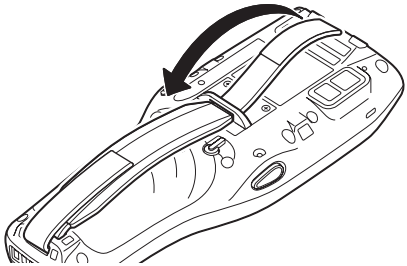
The hand belt can be used to prevent the Handheld Terminal from fall when carrying it around. Attach the hand belt according to the procedure described below.

To attach the hand belt

1. Thread the belt through the hand belt hole as shown in the figure. Then fold it back and secure using the hook-loop fastener.

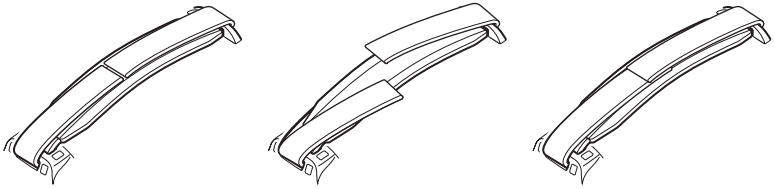


2. Thread the other end of the belt through the hand belt hole and adjust the length so that it fits comfortably on your hand. Then secure using the hook-loop fastener.



Important!

- **Stick the hook-loop fastener down straight.**
- **Ensure that the folded-back part does not overlap.**
  See "Bad" example at right.



Good Bad Bad

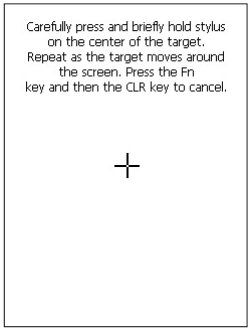
Calibrating Touch Screen Alignment

Whenever the response of the touch screen is poor, or the operations being executed do not match with the location you are tapping on the touch screen, please recalibrate the alignment of the touch screen using the following method.

- Press the “Fn” key and then press the “4” key after confirming that “F” is displayed in the lower right corner of the screen. The following screen is displayed.

∗ You can also display this screen by navigating as follows:

Start → Settings → Stylus → Calibration

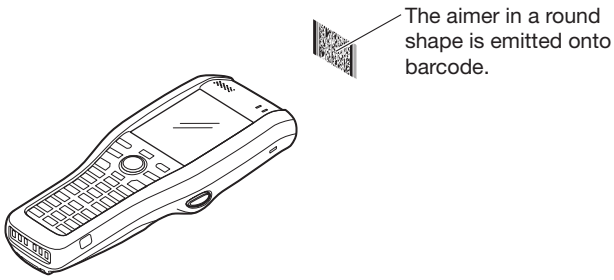

Carefully press and briefly hold stylus
on the center of the target.
Repeat as the target moves around
the screen. Press the Fn
key and then the CLR key to cancel.

- Press the stylus against the center of the target mark (+ mark) as indicated on the screen. The screen shown below appears after you press the stylus against the target at five different locations.

New settings have been measured.
Press the Enter key
to accept the new settings.
Press the Fn key and then the CLR key
to keep the old settings.

- Press the Enter key or tap anywhere on the touch screen.

1. Turn on the Handheld Terminal, position its CMOS Imager reader port near the bar code or 2D code, and then press the Trigger Key.



2. The Handheld Terminal reads the code by emitting laser and red lights.

   Indicator 2 (read operation indicator lamp) lights in green when the reading is successful.

   Bar code and stacked 2D code Reading Guide

   When you press the Trigger key, LEDs in the Handheld Terminal emit laser and red lights. Align the laser pointer with the center of the bar code or 2D code you are trying to read. Take particular care aligning the light when there are other bar codes nearby.

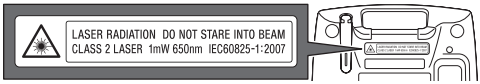
   When reading a bar code in large size, adjust the position of the Handheld Terminal so that the entire code is at proper distance. For small size, move the Handheld Terminal closer to it.

Important!

- **If you have problem not properly reading a code, change the angle and/or the distance between the code and the Handheld Terminal and try reading it again.**
- **A bar code can be read from a distance of 130mm to 2500mm ($5\frac{1}{8}$" to $98\frac{7}{16}$"), and a stacked 2D code can be read from a distance of 120mm to 650mm ($4\frac{3}{4}$" to $25\frac{9}{16}$") and matrix 2D code can be read from a distance of 100mm to 600mm ($3\frac{15}{16}$" to $23\frac{5}{8}$"). The actual reading distance depends on the symbology and the resolution.**
- **Note that a special reader application is required to read bar codes and 2D codes.**
- **Fingerprints, dust, dirt, or stain on the CMOS Imager reader port can cause abnormal reading. Should the reader port become dirty, wipe it clean with a soft and dry cloth.**

Warning Label

Laser Beam



- **This label is a warning and caution label for Class 2 laser products that comply with IEC60825-1:2007.**
- **Although Class 2 laser light is only emitted momentarily, never look directly into the beam light.**
- **The laser light emitted by this laser scanner has a maximum output of less than 1 mW and a wavelength of 650 nm.**
- **Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

⚠ Warning!

■ Never look directly into the laser light.

- This product with the integrated laser scanning module scans bar codes using laser light. Never look directly into the laser light or shine the laser light into the eyes.

IR Communication

IR communication can be used to transfer data between two Handheld Terminals. When performing IR communication, orient the IR ports of both Handheld Terminals so they are pointing directly at each other.
The ports can be in direct contact with each other, or they can be separated by up to 30cm (11 13/16") (up to 20cm (7 7/8") for communication between units).

Important!

- **A high-sensitivity communication element is used during IR communication.**
- **In order to ensure successful communication, avoid using cellular phones or other devices that emit radio wave in the area where you are performing IR communication.**
- **If you need to use such a device, move away from the communicating Handheld Terminals. In case of a cellular phone, keep it at least 30cm (11 13/16") away.**

Bluetooth® Communication

Bluetooth® interface can also be used to transfer data between two Handheld Terminals. With Bluetooth® the two Handheld Terminals should be located within about three meters (9'10$^{3}/_{8}$") from each other, as long as there is nothing blocking the path between them.

Important!

Observe the following precautions to help ensure that Bluetooth communication is successful.

- **Make sure two Handheld Terminals face each other within three meters (9'10$^{3}/_{8}$"). Surroundings (obstacles) between the Handheld Terminals may cause a shorter distance.**
- **Make sure there is at least two meters (6'7") between the Handheld Terminal and other equipment (electrical appliances, audio-visual equipment, OA equipment, and digital cordless telephones, facsimile machines, etc.). (Take special care with microwave ovens. Allow at least three meters (9'10$^{3}/_{8}$) between the Handheld Terminals in wireless operation and a microwave oven.) When approaching such a device when its power is turned on, proper communication may prove impossible while this may also cause interference with TV and radio reception (images produced by certain UHF and broadcast satellite channels may become blurry).**
- **Normal communication may not be possible in an area near a broadcast transmitter or wireless transmitter. If this happens, move the Handheld Terminal to a different location. Normal communication may not be possible in areas exposed to strong radio waves.**
- **RF Wireless LAN Interference**

  Because Bluetooth® and RF wireless LAN use the same frequency band (2.4GHz), radio interference can occur if there is a wireless LAN device nearby. This can result in lower communication speeds, or even make it impossible to establish a connection. If this happens, try the following countermeasures.

  - Move at least 10 meters (32'10$^{3}/_{4}$") away from the wireless LAN device.
  - If you cannot keep the distance at least 10 meters (32'10$^{3}/_{4}$") or more between the Handheld Terminal and a wireless LAN device, turn off the power of either the Handheld Terminal or the wireless LAN device.
  - Although the Handheld Terminal enables wireless LAN and Bluetooth® communication to be used simultaneously as a result of being equipped with Bluetooth® Ver.2.0, communication may not be possible depending on the surrounding radio wave environment.

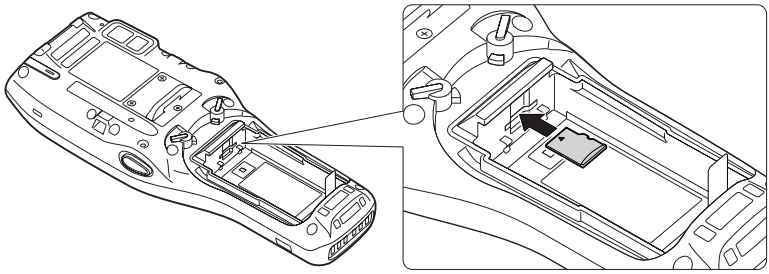
Handling microSD Cards

The Handheld Terminal supports microSD card.
Since the microSD card slot is located inside the battery pack compartment, first remove the battery pack when installing or removing a microSD card.
Refer to pages 20 to 22 for information on “Loading and Removing the battery pack”.
Install (or replace) a microSD card according to the procedure described below.

Installing

1. Check that the power is turned off. If the power is on, always make sure to turn it off by pressing the Power Key.
2. Remove the battery pack.
3. Insert the microSD card with the top of the card (containing lettering) facing up by properly aligning with the slot.

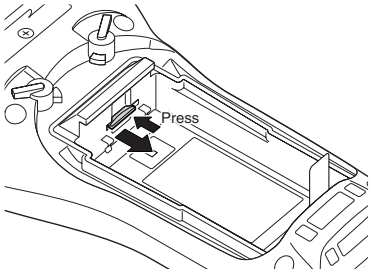
- Although some resistance may be felt when the card is inserted, gently insert the card all the way into the slot until it contacts the back of the slot.
- Do not push in the card on the angle.



4. Load the battery pack.

Removing

1. Check that the power is turned off.
   If the power is on, always make sure to turn it off by pressing the Power Key.
2. Remove the battery pack.
3. Push in the card. Slowly remove the card after it slightly pops out.



4. Load the battery pack.

Important!

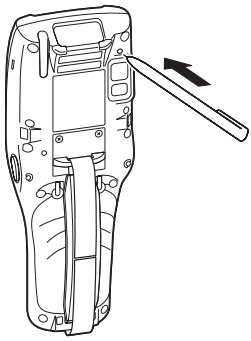
- **A microSD card must be inserted with the top and bottom properly aligned and in the proper direction. Attempting to insert it with an excessive force in the incorrect orientation can risk damage to the connectors and slot. Be careful when inserting a microSD card.**
- **The battery pack will not be able to be properly installed if the microSD card is not properly installed. Reinstall the microSD card properly if this happens.**

Resetting the Handheld Terminal

Resetting the Handheld Terminal is the same as resetting a PC. Performing a reset causes all unsaved inputs and edits to be lost, but data that is already stored in the memory as well as all settings should be unaffected.
Use reset to restore normal operation whenever the Handheld Terminal operates abnormally due to misoperation or some other reason.

Use a stylus to press the reset switch on the back of the DT-X30.
This starts the reset operation.

* Do not use a toothpick or pencil or other sharp object whose tip may break off the reset switch.

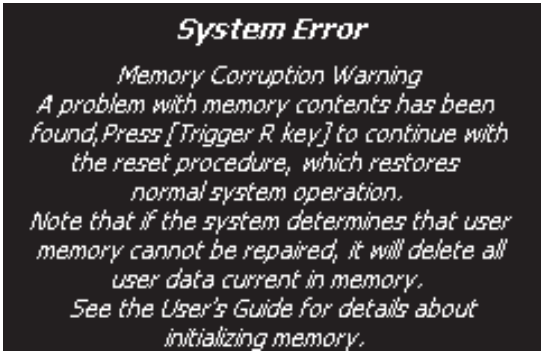


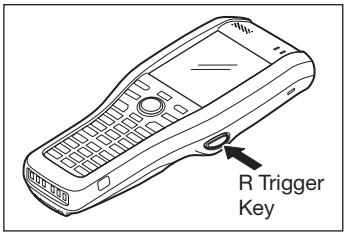
If reset does not find a memory problem

The Handheld Terminal restarts, and normal operation is restored.

If reset finds a memory problem

A message like the one shown below appears on the display when the reset operation discovers a memory problem.


System Error
Memory Corruption Warning
A problem with memory contents has been found. Press [Trigger R key] to continue with the reset procedure, which restores normal system operation.
Note that if the system determines that user memory cannot be repaired, it will delete all user data current in memory.
See the User's Guide for details about initializing memory.



When this message appears, press the Trigger key to continue with the reset operation.

DT-X30 Specifications

Model:	DT-X30R-50C/R-50
CPU:	Marvell® PXA320 624MHz
Memory:	128MB RAM, 128MB Flash ROM (user defined: 80MB)
OS:	Microsoft® Windows® CE6.0R2 operating system, English Version
Display:	3.5-inch, 320 × 240-dot 2-Way TFT color LCD
CMOS Imager:	
Type:	Long Range Imager
Readable symbologies:	1D: UPC-A/UPC-E/EAN8 (JAN8)/EAN13 (JAN13)/Codabar (NW-7)/Code39/Interleaved 2 of 5 (ITF)/MSI/Code93/Code32/ISBT Code128 (EAN128 (GS1-128))/Code11/IATA/RSS-14 (GS1 DataBar Omnidirectional)/RSS Limited (GS1 DataBar Limited)/ RSS Expanded (GS1 DataBar Expanded) Stacked 2D: PDF417/Micro PDF/Composite/Codablock F/ RSS Expanded Stacked (GS1 DataBar Expanded Stacked)/RSS-14 Stacked (GS1 DataBar Stacked) Matrix 2D: Aztec/DataMatrix/Maxicode/QR Code
Scanning distance:	1D: 130 mm – 2500 mm ($5^{1}/_{8}$"-$98^{7}/_{16}$") Stacked 2D: 120 mm – 650 mm ($4^{3}/_{4}$"-$25^{9}/_{16}$") Matrix 2D: 100 mm – 600 mm ($3^{15}/_{16}$"-$23^{5}/_{8}$")
IR Port:	
Interface:	IrDA Ver. 1.3 LowPower
Synchronization:	Asynchronous, frame synchronization
Transmission Rate:	Up to 4Mbps (max.)
Bluetooth®:	
Protocol:	Bluetooth® Specification Ver.2.0 + EDR
Range:	Approximately 3 m (9'$10^{3}/_{8}$") (depends on radio wave conditions and environment)
Output:	4dBm max. (PowerClass2)
WLAN:	
Standards:	IEEE 802.11b/g
Diffusion Modulation:	DS: 802.11b DS/OFDM: 802.11g
Frequency:	802.11b/g: 2.400-2.4835 GHz
Transmission Rate:	802.11b: Max. 11 Mbps 802.11g: Max. 54 Mbps
Communication Range:	50 m indoors, 150 m outdoors (varies according to usage environment and transmission rate)
Camera (DT-X30R-50C):	
	Approx. 2,000,000 pixels Autofocus function
Power Requirements:	
Power Source:	HA-G20BAT Battery Pack
Memory Backup:	Rechargeable Lithium Battery (Built-in)
Consumption Current:	DC 2.4A

Battery Life:

Battery pack:

Approximately 18 hours*

Approximately 10 hours**

* under the conditions that CPU speed is set to the auto power save mode, backlight is set to off, and the ratio of cyclic operation of “Standby, Key input, and Scanning” is set at 20:1:1.

** under the conditions that CPU speed is set to the auto power save mode, backlight is set to off, and the ratio of cyclic operation of “Standby, Scanning, and WLAN” is set at 6.5:1.5:2.

Memory backup: 10 minutes for protection of data in memory

3 days for backup of built-in clock

Operating Temperature: –20°C to 50°C (–4°F to 122°F)

Operating Humidity: 10% to 80% RH (non-condensation)

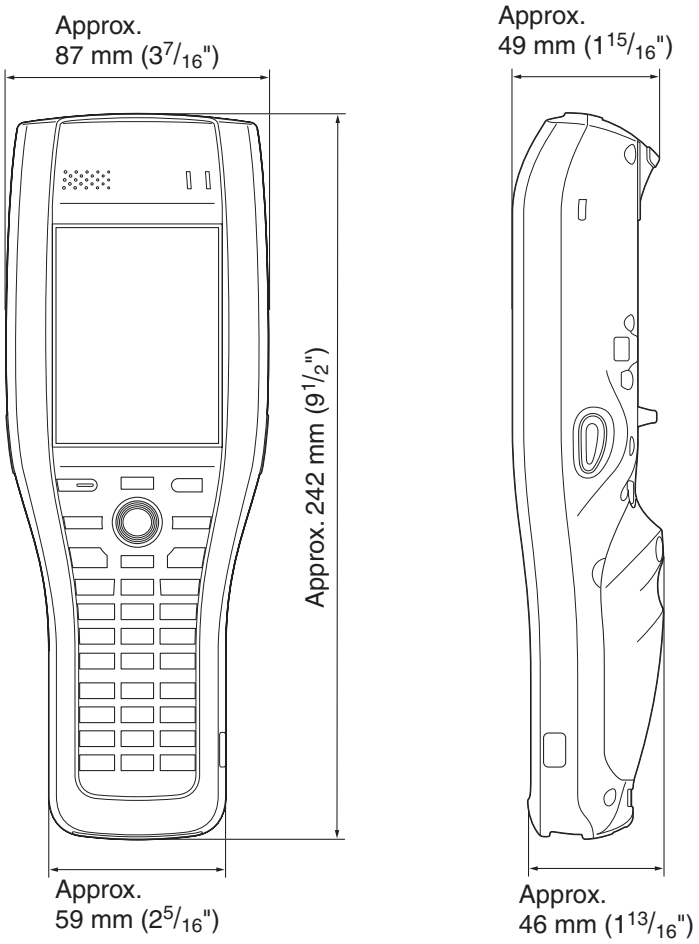
Dust and Water Splash Proof:

IEC60529 standard, IP67 level

Dimensions: Refer to “Dimensional Drawing” on the next page.

Weight: Approximately 560g (19.8oz) (when battery pack is installed)

Dimensional Drawing

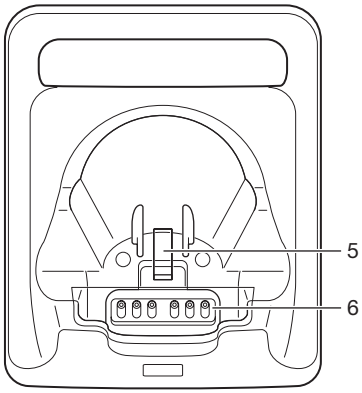


Using the USB Cradle (HA-G60IO)

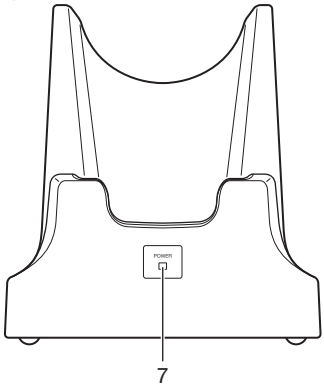
The optionally available USB Cradle (HA-G60IO) makes it possible to transmit system data and file data between the Handheld Terminal and a PC via a USB connection (download or upload). You can also use the USB Cradle to charge the battery pack installed in the Handheld Terminal.

General Guide

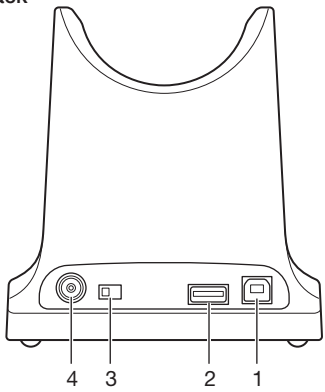
Top



Front



Back



1	USB Client Port	This port is used to transmit system data and file data (download, upload) by connecting the Cradle to a PC using a USB cable (DT-380USB). A dedicated driver must be installed in the PC before connecting the Cradle to the PC.
2	USB Host Port	This port is used to connect a corresponding USB peripheral device.
3	Selector Switch	This switch is used to switch between the USB host port and USB client port. Set the switch to the "A" position when using the unit as a USB host, or set it to the "B" position when using the unit as a USB client.
4	AC Adaptor Jack	Connect the AC adaptor (sold separately) here.
5	Terminal Detect Switch	This switch detects when the DT-X30 is seated correctly on the Cradle.
6	Power Contacts	Power is supplied to the DT-X30 via these contacts. Also used for data communication.
7	Power LED	This LED indicates the power status and the mounting status of the DT-X30. Off: DT-X30 is not installed. Green: Power on, DT-X30 mounted correctly.

Important!

- **Always make sure to first remove the Handheld Terminal from the USB Cradle when switching the selector switch.**
- **Allowing the power contacts become wet can cause an electric shock or fire. In addition, if the contacts become soiled, contact may be impaired resulting in poor charging. For reasons of safety and maintaining charging battery pack(s) in optimum condition, clean the power contacts by wiping with a dry cloth or cotton swab after disconnecting the AC adaptor.**
- **Never short out the power contacts of the USB Cradle. This can damage the USB Cradle.**
- **Do not subject the Handheld Terminal and USB Cradle to vibration or impact during communication. This can cause communication to be interrupted.**
- **When placing the DT-X30 into the cradle, make sure that it is seated properly and that the power LED at the front of the USB Cradle is lit in green. Charging and communication will not proceed properly if the Handheld Terminal is not seated properly.**
- **Always cap ports that are not being used. Using the USB Cradle while the ports are uncapped can cause damage.**

Specifications

1. **USB**
   Protocol: USB Ver1.1 Standard
   Transfer Rate: 12Mbps (max.)
2. **Charging**
   Charging Method: Constant current/voltage
   Charge Period: Approximately 5 hours
3. **Power Supply**
   Power Source: AC adaptor (AD-S42120B)
   Consumption Current: 12V DC approximately 3.0A
   Output to Handheld Terminal: 9.5V DC 2.7A (max.)
   USB Host Output: 5V DC 0.5A (max.)
4. **AC Adaptor**
   Model: AD-S42120B
   Input: 100V to 240V AC 50/60Hz 1.2A
   Output: 12V DC 3.5A
5. **Dimensions and Weight**
   Dimensions: Approximately 120(W) × 144(D) × 129(H) mm
   ($4\frac{3}{4}$"W × $5\frac{11}{16}$"D × $5\frac{1}{16}$"H)
   Weight: Approximately 300g (10.6oz)
6. **Operating Environment**
   Temperature: 0°C to 40°C (32°F to 104°F)
   Humidity: 30% to 80% RH (non-condensation)

The AD-S42120 series comes available in the following models depending on area or region where you are in.

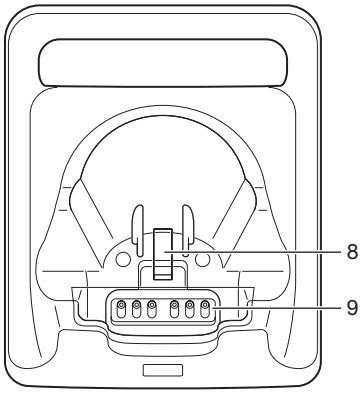
Model no. of AC Adaptor	Area/Region	Compliance
AD-S42120BE AD-S42120B-N	All except China	Compliant with CE, UL, FCC, and Energy Efficiency Standards.
AD-S42120BE-CN	China only	Compliant with Energy Efficiency Standards and CCC.

Using the Ethernet Cradle (HA-G62IO)

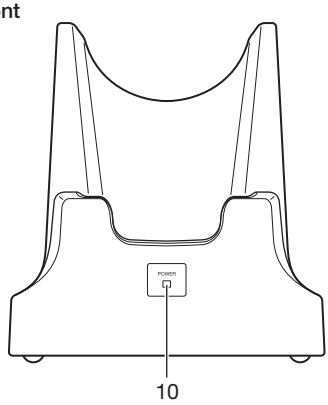
The optionally available Enthernet Cradle (HA-G62IO) makes it possible to transmit system data and file data between the Handheld Terminal and a PC via a USB or LAN connection (download or upload). You can also use the Ethernet Cradle to charge the battery pack installed in the Handheld Terminal.

General Guide

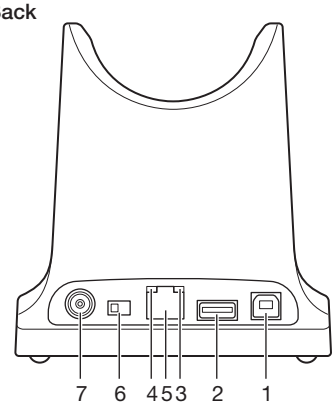
Top



Front



Back



1	USB Client Port	This port is used to transmit system data and file data (download, upload) by connecting the Ethernet Cradle to a PC using a USB cable (DT-380USB). The dedicated driver must be installed in the PC before connecting the Ethernet Cradle to the PC.
2	USB Host Port	This port is used to connect a corresponding USB peripheral device.
3	LAN Connection Status LED	This LED shows the status of the LAN connection. Off: LAN cable not connected correctly. Lit orange: LAN cable connected correctly.
4	LAN Communication Status LED	This LED shows the LAN operation status. Off: No communication. Blinking: Communication in progress.
5	LAN Port	This port is used for connecting the cradle to a PC or hub via a LAN cable so that system data and file data can be transmitted (uploaded or downloaded). The special driver software must be installed in the DT-X30.
6	Selector Switch	This switch is used to switch between a USB connection and a LAN connection. LAN: LAN A: USB host B: USB client
7	AC Adaptor Jack	Connect the AC adaptor (sold separately) here.
8	Terminal Detect Switch	This switch detects when the DT-X30 is seated correctly on the Ethernet Cradle.
9	Power Contacts	Power is supplied to the DT-X30 via these contacts.
10	Power LED	This LED indicates the power status and the mounting status of the DT-X30. Off: DT-X30 is not installed. Green: Power on, DT-X30 mounted correctly.

Important!

- **Never short out the contacts of the Ethernet Cradle. This can damage the Ethernet Cradle.**
- **Allowing the power contacts become wet can cause an electric shock or fire. In addition, if the contacts become soiled, contact may be impaired resulting in poor charging. For reasons of safety and maintaining charging battery pack(s) in optimum condition, clean the power contacts by wiping with a dry cloth or cotton swab after disconnecting the AC adaptor.**

- **Do not subject the Handheld Terminal and Ethernet Cradle to vibration or impact during communication. This can cause communication to be interrupted.**
- **When placing the DT-X30 into the cradle, make sure that it is seated properly and that the power LED at the front of the Ethernet Cradle is lit in green. Charging and communication will not proceed properly if the Handheld Terminal is not seated properly.**
- **Always cap ports that are not being used. Using the Ethernet Cradle while the ports are uncapped can cause damage.**

Specifications

1. LAN Specifications

Communications protocol:	IEEE 802.3
Media type:	10base-T/100base-TX auto-switched

2. USB

Protocol:	USB Ver1.1 Standard
Transmission Rate:	12Mbps (max.)

3. Charging

Charging Method:	Constant current/voltage (the charging circuit is built in DT-X30)
Charge Period:	Approximately 5 hours

4. Power Supply

Power Source:	AC adaptor (AD-S42120B*)
Consumption Current:	12V DC approximately 3.0A
Output to Handheld Terminal:	9.5V DC 2.7A (max.)
USB Host Output:	5V DC 0.5A (max.)

5. AC Adaptor

Model:	AD-S42120B
Input:	100V to 240V AC 50/60Hz 1.2A
Output:	12V DC 3.5A

6. Dimensions and Weight

Dimensions:	Approximately 120(W) × 144(D) × 129(H) mm ($4\frac{3}{4}$"W × $5\frac{11}{16}$"D × $5\frac{1}{16}$"H)
Weight:	Approximately 300g (10.6oz)

7. Operating Environment

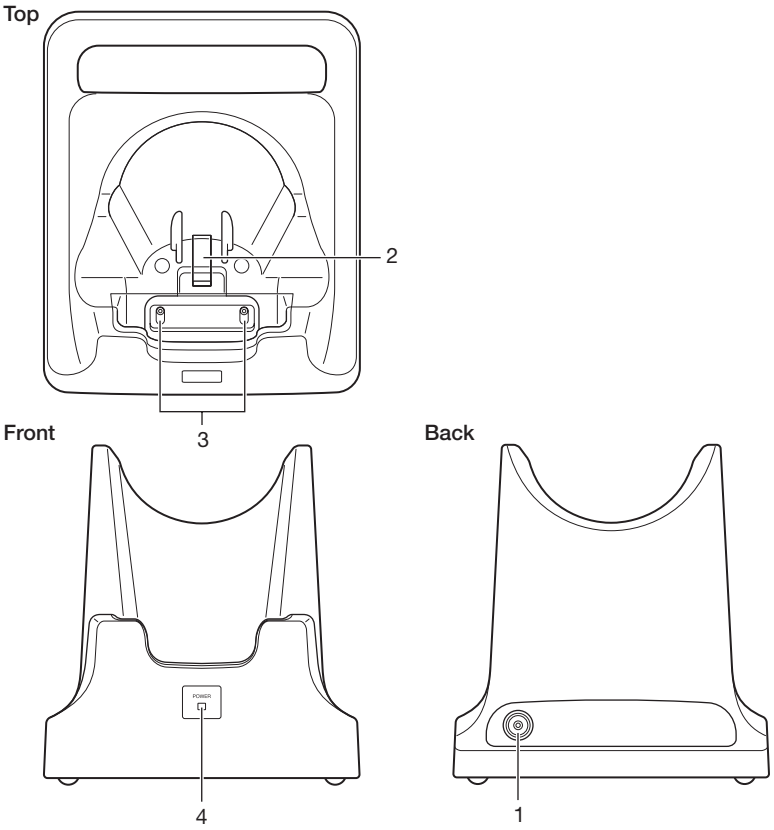
Temperature:	0°C to 40°C (32°F to 104°F)
Humidity:	30% to 80% RH (non-condensation)

*See page 39.

Using the Cradle-type Battery Charger (HA-G30CHG)

The optionally available Cradle-type Battery Charger (HA-G30CHG) lets you charge the Handheld Terminal's battery simply by placing the Handheld Terminal onto the charger.

General Guide



1	AC Adaptor Jack	Connect the AC adaptor (sold separately) here.
2	Terminal Detect Switch	This switch detects when the DT-X30 is mounted correctly on the charger.
3	Power Contacts	Power is supplied to the DT-X30 via these contacts.
4	Power LED	This LED indicates the power status and the mountting status of the DT-X30. Off: DT-X30 is not installed Green: Power on, DT-X30 mounted correctly

Important!

- **Never short out the power contacts of the Cradle-type Battery Charger. This can damage the Cradle-type Battery Charger.**
- **Allowing the power contacts become wet can cause an electric shock or fire. In addition, if the contacts become soiled, contact may be impaired resulting in poor charging. For reasons of safety and maintaining charging battery pack(s) in optimum condition, clean the power contacts by wiping with a dry cloth or cotton swab after disconnecting the AC adaptor.**
- **When placing the DT-X30 into the cradle, make sure that it is seated properly and that the power LED at the front of the Cradle-type Battery Charger is lit in green. Charging and communication will not proceed properly if the Handheld Terminal is not seated properly.**

Specifications

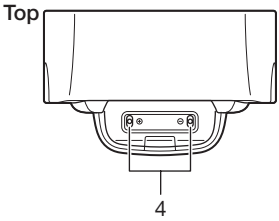
1. **Charging Specifications**
   Charging Method: Constant current/voltage (the charging circuit is built in DT-X30)
   Charge Period: Approximately 5 hours
2. **Power Supply**
   Power Source: AC adaptor (AD-S42120B*)
   Consumption Current: 12V DC 2.6A
   Output to Handheld Terminal: 9.5V DC 2.7A (max.)
3. **AC Adaptor**
   Model: AD-S42120B
   Input: 100V to 240V AC 50/60Hz 1.2A
   Output: 12V DC 3.5A
4. **Dimensions and Weight**
   Dimensions: Approximately 120(W) × 144(D) × 129(H) mm
   ($4\frac{3}{4}$"W × $5\frac{11}{16}$"D × $5\frac{1}{16}$"H)
   Weight: Approximately 300g (10.6oz)
5. **Operating Environment**
   Temperature: 0°C to 40°C (32°F to 104°F)
   Humidity: 30% to 80% RH (non-condensation)

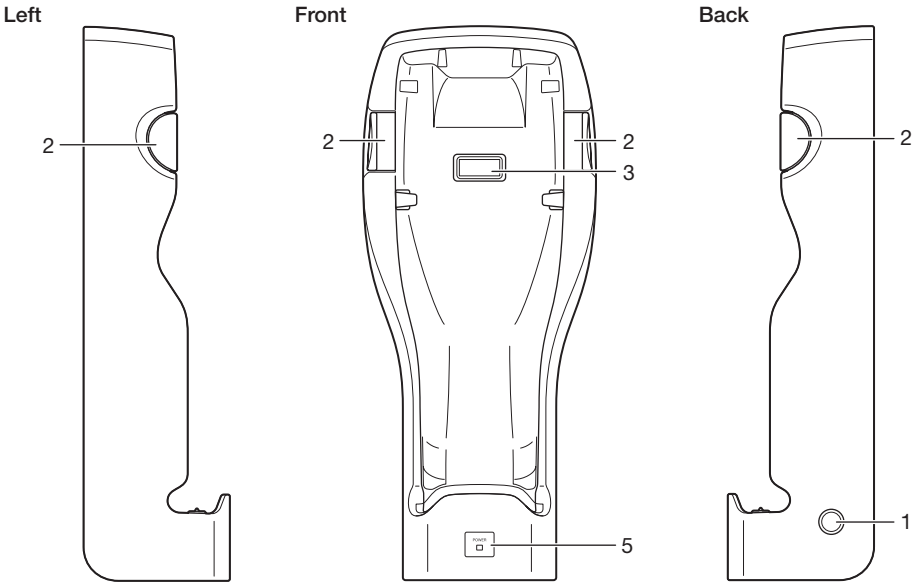
* See page 39.

Using the Car Mounted-type Battery Charger (HA-G35CHG)

The optionally available Car Mounted-type Battery Charger (HA-G35CHG) can be used to charge the battery installed in the Handheld Terminal using power from the cigarette lighter in your car.

General Guide





1	AC Adaptor Jack	Connect the Car Power Cable (bundled) here.
2	Removal Buttons	Press when removing the DT-X30.
3	Terminal Detect Switch	This switch detects when the DT-X30 is mounted correctly on the charger.
4	Power Contacts	Power is supplied to the DT-X30 via these contacts.
5	Power LED	This LED indicates the power status and the mountting status of the DT-X30. Off: DT-X30 is not installed Green: Power on, DT-X30 mounted correctly

Important!

- **Take care to avoid allowing the power contacts to become connected to each other, which creates a short.**
- **Regarding the installation of HA-G35CHG in your car, no technical advice is available from CASIO. Consult with automotive parts store or specialized store regarding the installation method and mounting strength of the products installed in your car.**

Precaution

- The Car Power Cable cigarette lighter plug may not fit the cigarette lighter sockets of certain 12/24V DC vehicles.

Specifications

1. Charging
Charging System : Constant current/voltage (the charging circuit is built in DT-X30)
Charge time : Approximately 5 hours

2. Dimensions and Weight
Dimensions : Approximately 121(W) × 287(D) × 75(H) mm ($4\frac{3}{4}$"W × $11\frac{5}{16}$"D × $2\frac{15}{16}$"H)
Weight : Approximately 620g (21.9oz) (not including brackets)

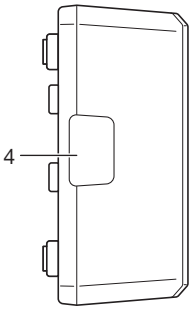
3. Operating Environment
Temperature : -20°C to 50°C (-4°F to 122°F)
Humidity :30% to 80% RH (non-condensation)

Using the Dual Battery Charger (HA-G32DCHG)

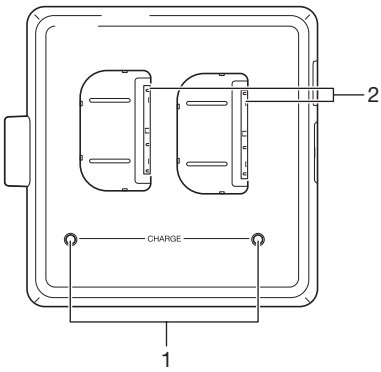
The optionally available Dual Battery Charger (HA-G32DCHG) can be used to simultaneously charge two battery packs.

General Guide

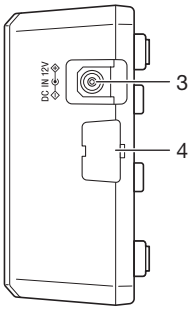
Left



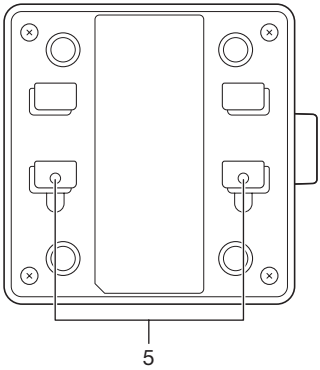
Top



Right

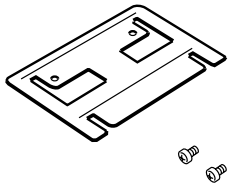


Bottom



Bundled Items

Connection Bracket
2 screws



1	Charge Indicator LED	This LED indicates the charge status of the battery pack(s). Off: Not charging Red: Charging Red Flashing: Battery pack problem Green Flashing: Standby Green: Charging complete
2	Power Contacts	Power is supplied to the Handheld Terminal via these contacts.
3	AC Adaptor Jack	This is used to supply power by connecting the AC adaptor (sold separately).
4	Dual Battery Charger Connection Port	Use this port to connect multiple Dual Battery Chargers to each other.
5	Connection Bracket Attachment Holes	The connection bracket attaches here when you connect multiple Dual Battery Chargers to each other.

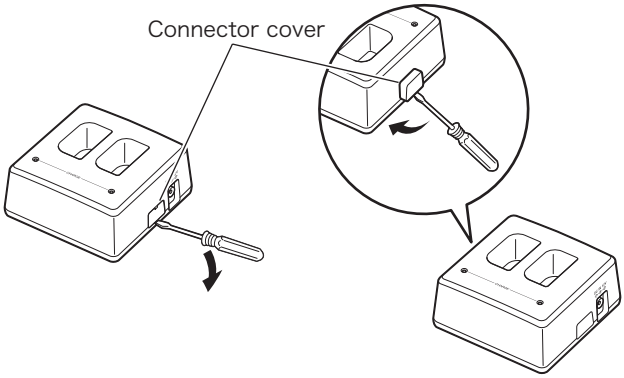
Important!

- **Allowing the power contacts become wet can cause an electric shock or fire. In addition, if the contacts become soiled, contact may be impaired resulting in poor charging. For reasons of safety and maintaining charging battery pack(s) in optimum condition, clean the power contacts by wiping with a dry cloth or cotton swab after disconnecting the AC adaptor.**
- **Although the battery may become warm during charging, this is normal and does not indicate a malfunction.**
- **Repeated "Mounting and Removing" of battery pack in excess of times may cause the quality deterioration of the battery pack.**
- **Each Dual Battery Charger comes with one connection bracket.**
  Since only one connection bracket is required when you connect two Dual Battery Chargers, you will always have one left over.
  Simply keep the other connection bracket on hand as an extra, in case you ever need it.

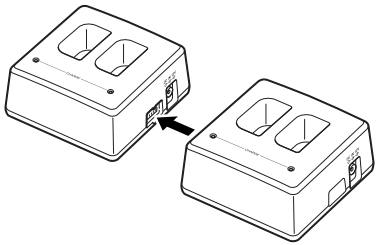
Connecting Multiple Dual Battery Chargers

You can connect up to three Dual Battery Chargers. Doing so makes it possible to supply power to all the Dual Battery Chargers using one dedicated AC adaptor.

1. As shown in the illustrations below, remove the connector covers of the Dual Battery Chargers you want to connect to each other.

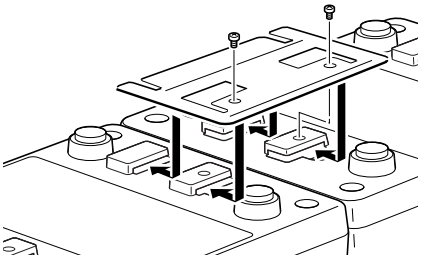


2. Connect the two Dual Battery Chargers as shown below.



3. Turn over the connected Dual Battery Chargers and attach a connection bracket, securing it in place with screws.

   You can repeat the above steps to connect up to 3 Dual Battery Chargers.



Specifications

1. Charging Specification

Charging Method:	Constant current/voltage
Charge Period:	Approx. 4 hours (1 standard battery pack, normal temperature) When charging two battery packs: Approx. 5.5 hours (2 standard battery packs, normal temperature)

2. Power Supply

Power Source:	AC adaptor (AD-S42120B*)
Consumption Current:	12V DC 3.5A
Output:	8.2V DC 1.0A (max.)

3. AC Adaptor

Model:	AD-S42120B
Input:	100V to 240V AC 50/60Hz 1.2A
Output:	12V DC 3.5A

4. Dimensions and Weight

Dimensions:	Approximately 104(W) × 100(D) × 50(H) mm ($4\frac{1}{8}$"W × $3\frac{15}{16}$"D × $1\frac{15}{16}$"H)
Weight:	Approximately 168g (5.9oz)

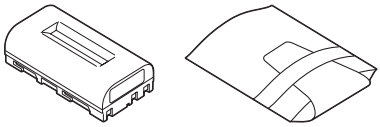
5. Operating Environment

Temperature:	Approximately 0°C to 40°C (32°F to 104°F) (stand-alone) Approximately 0°C to 35°C (32°F to 95°F) (with 3 connected)
Humidity:	30% to 80% RH (non-condensation)

*See page 39.

Using Rechargeable Battery Pack

HA-G20BAT



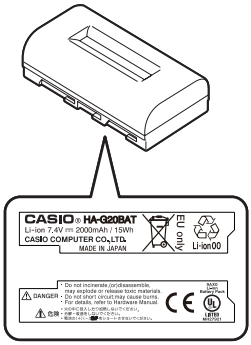
Important!

- **Store a battery pack in its special soft case whenever you are not using it.**
- **If the battery pack has been left over unused for a long period of time, the capacity remained decreases due to spontaneous discharge or chemical decomposition by the battery pack itself. If the battery pack fails to hold its operating duration after it has been fully charged, replace it with a new one. The battery pack may reach the end of its service life.**

Specifications

Model:	HA-G20BAT
Rated Capacity:	14.8WH (or 2000mAh)
Rated Voltage:	7.4V
Dimensions:	Approximately 39(W) × 72(D) × 21(H) mm ($1\frac{9}{16}$"W × $2\frac{13}{16}$"D × $\frac{13}{16}$"H)
Weight:	Approximately 110g (3.9oz)
Bundled Item:	Soft case

Warning Label



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